

$$\langle \psi^\dagger \psi^\dagger \rangle_{1-ir} = 2\lambda Z_5 + \frac{1}{2} \text{---} \bullet \text{---} \bigcirc \text{---} \bullet \text{---} + \text{---} \bullet \text{---} \bigcirc \text{---} \bullet \text{---} \quad (1)$$

$$\langle \psi \psi^\dagger \rangle_{1-ir} = Z_1 i\omega - \lambda (Z_2 k^2 - Z_3 \tau) + \text{---} \bullet \text{---} \bigcirc \text{---} \bullet \text{---} + \text{---} \bullet \text{---} \bigcirc \text{---} \bullet \text{---} \quad (2)$$

$$\langle \psi \psi \psi^\dagger \rangle_{1-ir} = -g\lambda\mu^{\frac{\epsilon}{2}} Z_4 + \text{---} \bullet \text{---} \triangle \text{---} \bullet \text{---} + \text{---} \bullet \text{---} \triangle \text{---} \bullet \text{---} + \text{---} \bullet \text{---} \triangle \text{---} \bullet \text{---} + \text{---} \bullet \text{---} \triangle \text{---} \bullet \text{---}$$

$$\langle \psi \psi^\dagger v \rangle_{1-ir} = -i(k_i Z_1 + a q_i Z_6) + \text{---} \bullet \text{---} \triangle \text{---} \bullet \text{---} + \text{---} \bullet \text{---} \triangle \text{---} \bullet \text{---} + \text{---} \bullet \text{---} \triangle \text{---} \bullet \text{---}$$

$$\langle \psi^\dagger \psi \rangle_{1-ir} = Z_1 i\omega - \lambda (Z_2 k^2 - Z_3 \tau) + \frac{1}{2} \text{---} \bullet \text{---} \bigcirc \text{---} \bullet \text{---} + \text{---} \bullet \text{---} \bigcirc \text{---} \bullet \text{---} \quad (3)$$

$$\langle \psi^\dagger \psi^\dagger \psi \rangle_{1-ir} = -g\lambda\mu^{\frac{\epsilon}{2}}Z_4 + 2 \text{ (triangle with all solid lines) } + \text{ (triangle with two solid lines and one wavy line) } + 2 \text{ (triangle with one solid line and two wavy lines) }$$

$$\langle \psi \psi \psi^\dagger \rangle_{1-ir} = -g\lambda\mu^{\frac{\epsilon}{2}}Z_5 + 2 \text{ (triangle with all solid lines) } + \text{ (triangle with two solid lines and one wavy line) } + 2 \text{ (triangle with one solid line and two wavy lines) }$$

$$\langle \psi \psi^\dagger v \rangle_{1-ir} = -i(k_i Z_1 + a q_i Z_6) + \text{ (triangle with all solid lines) } + \text{ (triangle with two solid lines and one wavy line) }$$